



Isle of Wight County and the Towns of Smithfield and Windsor

Water Source Overview

Major water sources are groundwater wells and purchased water.

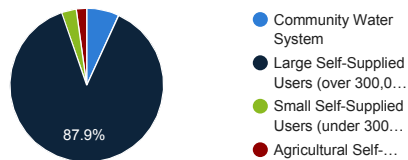
***Table 1:** Reported (2010) and projected (2040) water use by system type for Isle of Wight County in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Community Water System	2.999	10.295
Large Self-Supplied Users (over 300,000 gal/month)	38.477	38.477
Small Self-Supplied Users (under 300,000 gal/month)	1.369	1.900
Agricultural Self-Supplied Users	0.950	4.328

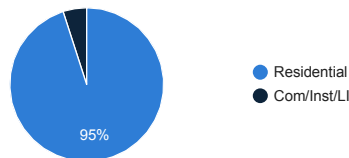
Water Use by System Type

Approximately 16,509 people use private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD: Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Isle of Wight County in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
42.75	1.04	51.16	3.84

***Figure 3:** Isle of Wight County highlighted in the Commonwealth of Virginia



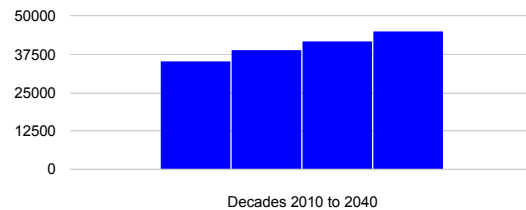
Projected Water Demand

Population and demand are projected to increase through the planning period. Existing water sources are expected to meet projected demands.

***Table 3:** Isle of Wight County population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

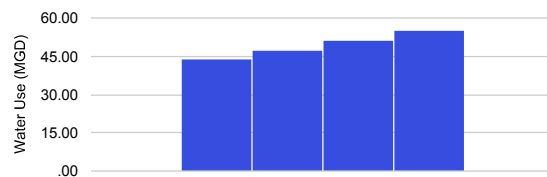
2010	2020	2030	2040	% Change (2010-2040)
35,270	38,828	41,946	44,922	25.7%

***Figure 4:** Isle of Wight County population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Isle of Wight County water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
43.79	47.53	51.26	55.00	25.6%



Drought Management Practices

The County and Towns each adopted "water supply emergency ordinances" for the implementation and enforcement of the Drought Response and Contingency Plan. (Hampton Roads Regional WSP)